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METHOD AND SYSTEM FOR ORGANIZING
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Enclosed are:

1. Specification

2. 13 Sheet(s) of drawing(s)

3. Information Disclosure Statement Under 37 CFR 1.97.

4. Combined Declaration for Patent Application and Power of Attorney:

4a. New

4b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 11 completed)

6. Assignment of the invention to **Eastman Kodak Company**

7. Certified copy of a priority document

8. Associate Power of Attorney

5. Incorporation by Reference (useable if Box 4b is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

9. Deletion of Inventor(s).

Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

10. If a 111A application prior to examination of the above-identified application, amend the specification at Page 1, after the title, by inserting the following:

-CROSS REFERENCE TO RELATED APPLICATION

Reference is made to and priority claimed from U.S. Provisional Application Serial No. , filed , entitled .

If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

11. Continuation Divisional Continuation-in-part (CIP) of prior application No. ,

12. Please address all written communications to Milton S. Sales, Patent Legal Staff, Eastman Kodak Company, 343 State Street, Rochester, NY 14650-2201. Please Direct all telephone calls to Frank Pincelli at (716) 726-1111.

The filing fee has been calculated as shown below:

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ORIGINAL

Application Based on

Docket **80121F-P**

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METHOD AND SYSTEM FOR ORGANIZING IMAGES

Assistant Commissioner for Patents,
ATTN: BOX PATENT APPLICATION
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METHOD AND SYSTEM FOR ORGANIZING IMAGES

CROSS REFERENCE TO RELATED APPLICATIONS

U. S. Serial No. _____, filed, _____, entitled "A KIT FOR
ORGANIZING A PLURALITY OF IMAGES"; Docket No. 80369/F-P.

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FIELD OF THE INVENTION

This invention relates to the field of image capture, and in particular to a system and method for organizing images obtained from a plurality of image retaining and/or capturing devices.

BACKGROUND OF THE INVENTION

10 Photographic services including image digitization, digital image storage and network access to digital image files and distribution of digital image files are currently provided by network photoservice providers such as the KODAK PhotoNet™ Online service available on the Internet at <http://kodak.photonet.com>. To use this system, the photographer checks a box on a photoprocessing envelope indicating she would like to receive this service. The photofinisher processes the film, scans the film to produce digital images, and uploads the digital images to the network photoservice provider via an FTP (file transfer protocol) site through an Internet server. The network photoservice provider receives the digital images and stores them as image files in a mass storage device such as a Sun ultra 250 mass storage hard drive connected to an internet server.

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25 The network photoservice provider assigns the image file a roll ID number, and an OwnerKey which functions as a location indicator and password so that the photographer can access the image file over the Internet, and sends the roll ID number and OwnerKey back to the photofinisher. The photofinisher prints a receipt listing the roll ID number, and an OwnerKey and returns the receipt along with the printed photographs to the photographer.

30 The photographer then accesses the network photoservice provider from an Internet capable personal computer, supplying the network photoservice provider with her e-mail address, personal password, roll ID number and

OwnerKey. The network photoservice provider then allows access to the stored images, from which photographer can download the images to the personal computer, authorize other people's access to the digital images by providing their e-mail addresses to the network photoservice provider, order reprints, specialty 5 products, digitally manipulate images, and perform other functions. It will be readily appreciated that the entry of so many codes and addresses complicates the use of the services provided by the network photoservice provider. In addition there is no means for the photographer to check the processing status until the receipt with the roll ID, and an OwnerKey is received.

10 Additionally, a photographer may choose another digitization service such as the Kodak PictureCD™ product which provides pictures in digital form on a Compact Disc (CD). In this service, a single roll of film is processed, scanned and written to the PictureCD™. While other software is distributed on the PictureCD™, storing only the equivalent of a single roll of film on a CD doesn't 15 begin to approach the capacity limits of this media.

 There is a need for a simple method which allows a user to digitize many rolls of film over an extended period of time and have them automatically written to a single digital image storage device, such as a CD.

20 Furthermore, there is a need for such a system to interact with the user to eliminate pictures from the collection that were not desirable to keep. This need implies the a need for the storage of digitized pictures in a database related to a specifically identified user for a period of time, quantity of pictures, or amount of available credit that is monitored by the system.

25 In a traditional photofinishing operation, a customer brings an exposed undeveloped roll of film or ONE-Time-Use camera to a retail establishment for processing and printing. Typically, a single roll of film or ONE-Time-Use camera is provided for processing and printing. Even when more than one roll is provided for developing and printing they are first segregated into photoprocessing envelopes. There is no means for automatically coordinating 30 images from one roll of film with that of another.

Another desirable feature of such a system according to the present invention is the ability to organize the digitized images into an organizational structure in part defined by non-picture data known as meta data which is associated with each individual picture.

5 Thus, there is a need to provide a method and system for organizing image orders and/or images for a particular customer. The present invention provides an improved method and system whereby images can be automatically and easily organized in accordance with pre-set parameters.

SUMMARY OF THE INVENTION

10 The foregoing and other objects, features and advantages of the invention will be apparent from the following more particular description of the preferred embodiment of the invention illustrated in the accompanying drawings.

15 In accordance with one aspect of the present invention there is provided a method for organizing a plurality of images obtained from a defined source, comprising the steps of:

 providing a database for storing digital images;
 providing at least one image to the database; and
 automatically providing a product with respect to the at least one image after reaching a predetermined criteria.

20 In accordance with another aspect of the present invention there is provided a system for organizing a plurality of images obtained from at least one image retaining device each having a unique ID, comprising:

25 a computer having database for storing digital images and a management section for managing customer orders and the stored digital images, the management section capable of receiving and storing the unique ID and registering the at least one image retaining device to a customer, the computer associating a particular goods and/or services to images obtained from the at least one image retaining device.

In accordance with yet another aspect of the present invention there is provided a method for organizing images obtained from a plurality of discrete image retaining devices, comprising the steps of:

- 5 providing a plurality of discrete image retaining devices, each having a unique ID;
- obtaining the ID from each of the image retaining devices;
- providing a first group of the image retaining devices;
- forwarding the ID for each of the image retaining devices in the group to database of a network photoservice provider for storage.

10 In accordance with still another aspect of the present invention there is provided a system for organizing images obtained from a group of a plurality discrete image retaining devices, each image retaining device having a unique ID, comprising:

- 15 a computer having database for storing digital images and a management section for managing customer orders and the stored digital images, the management section capable of receiving and storing the unique ID of the group of the plurality of image retaining devices and registering the group to a customer, the computer associating a particular goods and/or services to images obtained from the group of plurality of image retaining devices.

20 In accordance with another aspect of the present invention there is provided method for organizing a plurality of images obtained from an image source, comprising the steps of:

- 25 providing a database for storing of digital images;
- providing a plurality of discrete image retaining devices in a package, each image retaining device having a unique ID;
- forwarding the unique ID of the plurality of image retaining devices to a database at a network photoservice provider for storage;
- allowing access to the database to a customer so as to allow registration of the plurality of image retaining devices to the customer.

In accordance with yet another aspect of the present invention there is provided a method for organizing images obtained from a plurality of discrete image retaining devices, each image retaining device have an unique ID, comprising the steps of:

- 5 obtaining the ID of a plurality of the image retaining devices and forwarding the ID to a database at network photoservice provider;
- accessing the database by a customer and registering at least one of the image retaining devices to the customer, and
- the customer associating the providing of a goods or service to
- 10 images obtained from the at least one image retaining device.

In accordance with another aspect of the present invention there is provided a method for organizing a plurality of images obtained from an image source, comprising the steps of:

- providing a database for storing of digital images;
- 15 providing a plurality of discrete image retaining devices in a package, each image retaining device having an unique ID, the package having a unique package ID;
- forwarding the unique ID of the plurality of image retaining devices and the package ID to a database at a network photoservice provider for
- 20 storage;
- allowing access to the database to a customer so as to allow registration of the package ID so that the plurality of image retaining devices are automatically registered to the customer.

In still another aspect of the present invention there is provided a

- 25 method for organizing a plurality of images obtained from a plurality strips of photographic film, each of the plurality of strips of film being provided in a discrete film cartridge, each of the plurality of strips photographic film having an unique ID recorded thereon, comprising the steps of:

- providing a plurality of the film cartridges in a single package, the
- 30 package having an unique package ID;

forwarding the unique ID for the plurality of strips of photographic film and package ID to a database at network photoservice provider for storage; and

allowing access to the database to a customer so as to allow

5 registration of the package ID so that the plurality of strips of photographic film are automatically registered to the customer.

In still yet another aspect of the present invention there is provided a system for organizing a plurality of images obtained from a plurality strips of photographic film, each of the plurality of strips of film being provided in a

10 discrete film cartridge, each of the plurality of strips photographic film having an unique ID recorded thereon, comprising:

15 a computer having database for storing digital images and a management section for managing customer orders and the stored digital images, the management section capable of receiving and storing the unique ID of the group of the plurality strips of photographic film and registering the plurality strips of photographic film to a customer using the unique ID.

In still anther aspect of the present invention there is provided a method for organizing images obtained from a at least one image retaining devices, comprising the steps of:

20 providing at least one image retaining devices having a unique ID; obtaining the ID from each of the at least one image retaining device; and

forwarding the ID for the at least one image retaining to a network photoservice provider for storage.

25 **BRIEF DESCRIPTION OF THE DRAWINGS**

In the detailed description of the preferred embodiments of the invention presented below, reference is made to the accompanying drawings in which:

30 Fig. 1 is schematic diagram of a kit made in accordance with the present invention;

Fig. 2 is a schematic diagram of system made in accordance with the present invention;

Fig. 3a is a diagram of registration screen on a display device of a computer that is used in the system of Fig. 2;

5 Fig. 3b is a diagram of a verification screen on a display device of a computer that is used in the system of Fig. 2;

Fig. 3c is a diagram of an order screen on a display device of a computer that is used in the system of Fig. 2;

Fig 3d is a diagram of an order confirmation/verification screen on a display device of a computer used in the system of Fig.2;

Fig. 4 is a schematic diagram of another system made in accordance with the present invention;

Fig. 5 is a schematic diagram of yet another system made in accordance with the present invention;

15 Fig. 6 is a schematic diagram of still another system made in accordance with the present invention;

Fig. 7 is a schematic diagram of another system made in accordance with the present invention;

20 Fig. 8 is a schematic diagram of yet another system made in accordance with the present invention;

Figs. 9a-9b illustrate a registration card to be used in the system of Fig. 8;

Fig. 10 is a plan view of a package containing a plurality of image retaining devices to be used in the system of Fig. 8

25 Fig. 11a is a plan view of a package for holding image retaining
devices made in accordance with the present invention; and

Fig. 11b is an enlarged partial view of the package of Fig. 11a illustrating how the individual image retaining device may be held therein.

DETAILED DESCRIPTION OF THE INVENTION

Referring to Fig. 1 there is illustrated a retail kit 10 made in accordance with the present invention, which can be used for organizing images for a customer. In particular, the kit 10 comprises an image retaining device 12 upon which images may be captured. In the particular embodiment illustrated, the image retaining device 12 comprises a film cartridge 14 containing a strip of photographic film 16 therein upon which images can be captured. The film cartridge 14 is provided with a unique cartridge ID 17 which in the embodiment illustrated is provided in machine readable and human readable form. Once the images have been captured on film 16, the film 16 can be then sent to a photofinisher 68 where the film 16 is developed and the developed images are digitally scanned and sent to an appropriate output device such as a printer for printing of hard copy prints. Alternatively or in addition thereto, the digitally captured images may be sent to an image database or storage bank as discussed later herein. The kit 10 further includes registration card 18 which can be used for identifying the purchasing customer. The registration card 18 can also be used to identify the goods and/or service to be provided as a result of the purchase of kit 10. In the particular embodiment illustrated the registration card 18 includes a universal resource locator (URL) 20 and a registration number 22 which is written both in machine readable language and human readable language. The URL 20 is the internet address that is to be used for registration of the customer with respect to the goods and/or service to be provided as result of the purchase of kit 10. A magnetic strip 23 is also provided on card 18 which can also be read to provide information recorded thereon by an appropriate magnetic strip reader 19 such as disclosed in Fig. 4 discussed later herein. The recorded information can include information relating the goods and/or services purchased and/or any other information provided therewith that may be useful to the customer or other parties involved in providing the related goods and/ or services.

The kit 10 in the particular embodiment illustrated is also provided with an image storage device 24 upon which images may be digitally stored. In

the particular embodiment illustrated the image storage device 24 is a compact disk (CD) which is capable of storing a plurality of digital images. The image storage device 24 may be provided with a label 26 which can include all or some of the information provided on registration card 18 and/or the related goods and/or services to be provided. In the particular embodiment illustrated the label 26 is provided with registration number 22 provided on registration card 18. The CD is provided with a computer software program which when loaded on a computer will allow a user to communicate to a network photoservice provider 34 and also allow a customer to register the image retaining device 12 to the customer. The software may also allow the customer to do other tasks with the network photoservice provider 34. For example, but not limited to, the manipulation and/or sorting of digital images stored at the network photoservice provider 34, the uploading of images, the downloading of images, the ordering of goods and/or services and registration of additional image retaining devices 12 to the customer.

15 The image storage device 24, in the embodiment illustrated is capable of providing long term storage of the images that have been captured and stored on image retaining device 12. In this regard, the registration card 18 can also be used in identifying additional images obtained from other image retaining devices 12 that are to be associated and stored on image storage device 24.

20 Referring to Fig. 2 there is illustrated a block diagram showing an image organizing and automatic product delivery network system 28 that may be used for registering of kit 10 so that the appropriate goods and/or services will be automatically provided to the customer. In particular, the network system 28 comprises a computer 30 which can be linked to an internet service provider 32 which allows the computer 30 to be connected to a network photoservice provider 34 through the Internet 36. The computer 30 includes a display device 31 for displaying of images. In the embodiment illustrated display device 31 is a CRT, however, display device 31 may comprise any appropriate display device. In the particular embodiment illustrated the computer 30 is personal computer owned by the customer, however the present invention is not so limited. The computer 30

may comprise a kiosk and/or other computer that is available to the customer which can be connected to the network photoservice provider 34 through Internet 36 or other communication system.

The network photoservice provider 34 has a server 35 which is
5 capable of communicating using the Internet 36 and which is connected to a computer 40. Computer 40 includes an image storage database 42 where customer images are stored and a management section 43 for managing customer orders and keeping track of the stored images.

The kit 10 may be sold as part of a particular promotion for
10 providing a particular goods and/or service services upon reaching a predetermined criteria. In the particular embodiment illustrated, the kit 10 is sold with a promotion for providing an image storage product containing a plurality of images taken over a pre-selected period of time from a plurality rolls (strips) of photographic film 16. For example, a CD will be provided of a plurality of
15 images taken over a defined number of different rolls of photographic film and/or which have been taken over the course of a single year. The cost of the goods and/or service may be prepaid with the cost of the kit 10. In system 28 the customer would first register for the particular goods and/or service sold as part of the kit 10. This is accomplished by the customer accessing the URL 20 provided
20 on registration card 18 using computer 30 via the Internet 36. Once the customer is connected to network photoservice provider 34 associated with the URL 20. The network photoservice provider 34 will cause a registration screen 37 to be displayed on display device 31 of computer 30 as illustrated in Fig. 3a. As can be seen, the registration screen 37 will have various places for providing of
25 appropriate information needed by the network photoservice provider 34. In particular, the registration screen 37 includes a section 48 for entry of the customer name, a section 49 for entry of the customer address, a section 50 for entry of the customer phone number, a section 52 for entry of the e-mail address for the customer, and a section 54 for entry of registration number 22. In the
30 particular embodiment illustrated since this registration number is associated with

kit 10, it is possible that the film cartridge ID 17 can be automatically associated with registration number 22. For example, in preparation and selling of the kit 10, the registration number 22 may already have been associated with the film ID and forwarded on to the network photoservice provider 34 by the packager of kit 10, 5 which may be for example the manufacturer of one of the components of the kit 10 or by the retailer of the kit 10. However, in cases where the registration number 22 has not been pre-stored at the network photoservice provider 34, an additional section 56 may be provided on screen 37 for entry of the film cartridge ID 17.

10 Referring to Figs. 3b 3c there is illustrated a confirmation screen 46 and verification screen 47 that is provided to the customer after receipt and acceptance of the filled registration screen illustrated in Fig. 3a. Once the registration screen 37 has been completed the customer need not do anything further. This is because the kit 10 has already been pre-defined to provide a 15 predetermined goods and/or service upon reaching a predetermined criteria. As previously discussed, in the embodiment illustrated, the kit 10 is designed to provide a plurality of images on a CD. Thus, when an appropriate number of image retaining devices 12 have been provided so as to obtain the required number of images for filling the CD, the CD will automatically be provided to the 20 customer. Since the customer address has already been registered the completed CD is simply shipped to the customer by any desired means, for example, by mail, carrier, etc.. Alternatively, the CD, or other goods or services, may be provided after a predetermined time period has elapsed. For example, the CD would be returned to the customer with all images that have been received within a one year 25 time period. It is of course understood that the predetermined criteria may be selected as desired by the network photoservice provider 34 or selected by the customer at registration or at any other time prior to delivery of the requested goods and/or services. The customer is not limited to the particular goods and/or services that is associated with kit 10.

Referring to Fig 3d, there is illustrated a goods/service order confirmation display screen 39. If goods and/or service have already been associated with the registration number 22, this will be seen on display screen 39. This screen also allows the customer to ask for additional goods and/or services or

5 change the current order to provide different goods and/or services. As can be seen a variety of goods and/or services may be requested by the customer, for example, but not by way of limitation, ordering of album pages, providing the image on a computer disc, forwarding images to the KODAK PhotoNet™ Online service for forwarding images and/ or goods to third parties, such as friends,

10 relatives, business associates, create a site event where images from third parities may be shared. There, of course may be an additional cost associated with order changes made by the customer. As also illustrated on screen 37, there may be provided a place for a credit card number against which these new or modified goods and/or services may be charged thereby allowing the customer to be

15 automatically billed for the goods and/or services requested. In the particular embodiment illustrated the cost of the kit 10 included the cost of providing the fulfilled CD in which case the customer would be charged only for additional goods and/or services requested.

Once the customer has completed the registration process, the

20 customer may add additional image retaining devices 12 to the associated goods and/or service by simply reconnecting, via the internet, to the network photoservice provider 34 and providing additional film cartridge IDs 17 in the appropriate section 56 as prompted by the computer screen 37. If the customer desires, these additional film cartridges or other image retaining devices may be

25 ordered through the network photoservice provider 34. When such orders are made, the ID for each of the additional devices can be automatically registered on behalf of the customer. Thus, all the image retaining devices 12 that are to be used for the providing of images on to CD are pre-registered prior to forwarding on to a photofinisher for developing of the images on the image retaining device

30 12 and for providing any additional services as required by the kit 10. As

discussed later herein, the photofinisher 68 would contact the network photoservice provider 34 and access the customer information data section 44 of computer 40 to first determine if the film cartridge 14 has been registered and what goods or services have been requested through registration. In this regard, it
5 may be possible that a special code be provided on the film cartridge 14 and/or photoprocessing envelope 70 advising that a network photoservice has been associated with the particular film cartridge 14. Otherwise, the photofinisher 68 can simply scan the film cartridge ID 17 number and determine whether or not a network photoservice product or service has been registered by the customer.

10 Referring to Fig. 4, there is illustrated a block diagram showing a modified network system 58 used in practicing the present invention. System 58 is similar to system 28 wherein like numerals indicate like parts and operation. As previously discussed, the kit 10 provides a single image retaining device 12 that is to be associated with the goods and/or service to be provided. A plurality of
15 different image retaining devices 12 may be associated with a single goods and/or services in which case successive image retaining devices 12 must be associated therewith. With regard to system 58, a customer would use the registration card 18 to associate additional image retaining devices 12. When purchasing a second or subsequence image retaining device 12 as illustrated in Fig. 4, the film cartridge
20 14 may be scanned by scanner 62 at the retail establishment for obtaining the film cartridge ID 17. Also, a second scanner 19 may be provided for scanning the registration card 18 which will allow the customer to be automatically associated with that roll of film and registering of the film with that customer. This information would be forwarded by a retail computer 66 to an internet service
25 provider 32 which in turn would forward the information through the Internet 36 to the network service provider 34. The URL 20 address may be obtained from the scanning of the registration card 18. Since there is already an existing file associated with the registration number 22, the network photoservice provider 34 would automatically associate the film cartridge 14 with the service requested by
30 the customer. The customer would then capture the appropriate images on image

retaining device 12 and forward it to the appropriate photofinisher 68 in a typical photoprocessing envelope 70 whereby appropriate prints of any images captured on the image retaining device 12 may be returned to the customer as is typically done. The photofinisher 68 will have appropriate equipment 73 for processing of 5 the image retaining device 12 and digitally scanning of the images, for example, by scanner 74. The scanned digital information of the images (digital images) is forwarded to photofinishing server 76 and to memory 77 for temporary storage. Then the digital images are sent to a printer 78 for producing of hard copy prints 80 as ordered by the customer. The photofinisher 68 will have an appropriate 10 computer 82 for communicating with the server 76 which can communicate through the internet 36 to network photoservice provider 34. As previously discussed, appropriate information is provided for obtaining the film cartridge ID 17 which can be identified by the network photoservice provider 34. Thus, if the customer presents an order that requires a particular service (i.e. such as providing 15 images taken on a plurality of films 16 over a course of time, as previously discussed) the images will be sent via the Internet 36 to network photoservice provider 34 for storage and for providing of appropriate products or services as required upon reaching the predetermined criteria. In the particular embodiment illustrated, the predetermined criteria is the providing of sufficient images to fill 20 the CD or upon expiration of the one year time period. Therefore, once the network photoservice provider 34 obtains enough images for fulfilling of the request of goods and/or services, a CD containing all the images will be automatically produced and forwarded to the customer. The actual production of the CD may be accomplished by any appropriate concern. In the particular 25 embodiment illustrated the network photoservice provider 34 sends the appropriate information to a fulfillment center 86 which will produce the appropriate CD as required. In the particular embodiment illustrated an image storage device 24 in the form of a CD is provided to the customer at initial purchase. The CD is provided with appropriate computer software, as previously 30 discussed. Also in the embodiment illustrated, the initial CD supplied with kit 10

was sent to the photofinisher 68 in the photoprocessing envelope 70. The supplied CD can be forwarded on to the fulfillment center 86 once where the customer order is fulfilled. It is not necessary that the CD initially supplied be the actual CD used to fulfill the customer order or that the kit 10 be supplied with a CD for 5 providing the desired goods or service. If desired, the kit 10 may simply state that a CD or other desired goods or service will provided upon proper registration.

In the particular embodiment illustrated, the CD will typically hold approximately 500 high resolution digital images obtained from about 20 rolls of photographic film, each containing approximately 24 images. Thus, when 20 rolls 10 have been processed, the images that have been stored at the network photoservice provider 34, the appropriate customer order information and associated digital images are forwarded on to the appropriate fulfillment center 86 for completion of the customer order.

In the particular embodiment illustrated, the predetermined criteria 15 for providing of the CD is based on a particular number of images being provided by the customer. However, the present invention is not limited to such. For example, if only five rolls of films are processed within a prescribed time period, for example one year, upon reaching the prescribed time period a CD will be produced with whatever images have been obtained for that time period and will 20 be forwarded automatically to the customer. It is, of course, understood that any predetermined criteria may be used. The particular criteria may be modified by the customer at the time of registration or at any time prior to producing of the CD. The customer can, of course, order any further modification or additional 25 selections for goods and/or services which may or may not result in a charge to the customer.

In the invention illustrated in Fig. 1, only one image retaining device 12 is provided in kit 10 for starting of the process. However, the present invention is not so limited. Referring to Fig. 5, there is illustrated a block diagram 30 of a system 89 also made in accordance with the present invention. In this embodiment a plurality of film cartridges 14a-14i are provided in a single package

88 as illustrated. Each of the film cartridges 14a-14i are scanned prior to being filled in package 88 so as to obtain the cartridge ID 17 for each of the film cartridges 14. This information is forwarded to a cartridge registration database 90, wherein the information regarding the cartridge ID 17 for each of the film 5 cartridges 14 placed in package 88 are identified and grouped as a set. The cartridge registration database 90 is accessible through the Internet 36 or other types of communication to the network photoservice provider 34 and to a personal computer 30 of a customer. System 89 operates much in the same way as system 58 described with respect to Fig. 4 like numerals indicating like parts and 10 operation. In system 89, all of film retaining devices 12 within the package 88 can be readily identified by identifying only one of the film cartridges 14 as this information was originally captured as a group. Thus, when all of the film cartridges 14 in package 88 have been sent to the photofinisher 68 for processing and the captured images forwarded to the network photoservice provider 34, a CD 15 containing all of the captured images will be automatically provided by the network photoservice provider 34. In this regard the network photoservice provider 34 would send the stored digital images and customer order directions to a fulfillment center (not shown) where the appropriate goods and/or services are made and sent to the customer. The registration process works much in the same 20 way as previously discussed, however, instead of having the customer registering all of the film cartridges 14 individually, the customer need only provide one ID. Confirmation will be provided by the network photoservice provider 34 with respect to the other film cartridges 14 that are associated therewith as being part of the same group. The customer could then confirm that the actual film cartridges 25 14 contained in package 88 correspond to the confirmation notice provided by the network photoservice provider 34 to the customer.

While the entire group of film cartridges 14 will be considered a single set, the customer could modify the grouping at registration, or at some later time, by partitioning certain film cartridges 14 to a particular goods or service. 30 For example, but not by way of limitation, the customer could indicate that the

images obtained from film cartridges 14a, 14b and 14c are to be provided as a single group and are to be delivered on a single CD whereas the images from film cartridges 14d, 14e, 14f and 14g are provided on a second CD, and the images obtained from film cartridges 14h and 14i are to be provided on a single computer disk. It is of course to be understood that the customer may select any desired goods and/or service to be associated with any particular grouping or individual film cartridge 14.

Referring to Fig. 6, it is illustrated a block diagram of modified system 91 made in accordance with the present invention. The system 91 of Fig. 6 is very similar to system 89 of Fig. 5 except that the individual film cartridges 14 are not provided in a group packaging. The image retaining devices 12, in this embodiment are individually sold and are grouped as selected by the customer.

Referring to Fig. 7 there is illustrated a block diagram of yet another modified system 93 made in accordance with the present invention. The system 93 of Fig. 6 is similar to that of Fig. 4 except that an additional machine readable package ID 92 is provided on the package 88 for identifying all of the film cartridges 14 provided in the package 88. In this embodiment the cartridge ID 17 is scanned when the film cartridges 14 are in package 88. The scanned information, the cartridge ID 17 for all of the film cartridges 14 and the package ID 92, is sent on to the registration database 90 as previously discussed. Since there is provided a package ID 92 this can immediately associate all of the individual film cartridge ID 17 provided in package 88. Thus, when the customer registers the film, he need only provide the package ID 92 during registration wherein confirmation of all the individual film cartridges 14 will then again be provided to the customer confirming the actual cartridge IDs 17 of the film cartridges 14 provided to the customer. An advantage of system 93 is that the scanning and grouping of the individual film cartridges 14 may be provided at film packaging or at the retail establishment where the package 88 of film cartridges 14 are actually sold. Thus, the initial package 88 may not be part of an initial program by the film manufacturer or film packager but is entered into by

the retailer. The remaining operation of system 93 would operate in the same manner as system 58 previously discussed.

Referring to Fig. 8 there is illustrated a block diagram in yet of another modified system 95 made in accordance to the present invention. Like numerals indicating like parts and operation previously discussed. In this embodiment, a film ID 94 is provided on film 16. This information would be provided by the film manufacturer and sent to film registration database 96 which in turn would be sent to a package registration database 98 at a network photoservice provider 34. A card 96 could also be provided in the package 88 identifying the film ID 94 for of all the film cartridges 14 placed within package 88. This would allow the retailer to scan the card 96 and forward the information on to the network photoservice provider 34. Package ID 99 would be scanned and provided to the package registration database 98. This system would be useful when the film cartridge 14 does not have a registration number printed on the cartridge, such as with 35 mm film. It is known in the film manufacturing art to write a latent image barcode onto the filmstrip of a 35 mm roll of film during the manufacturing process. Such a barcode can encode the numbers subsequently used to register the film cartridges 14. When submitted for processing, the developed film 16 can be read by scanner 74 and cross checked against film registration database 96 to determine the appropriate goods and/or services selected. When the customer receives the package 88, he would register the film cartridges 14 by entering the numbers set forth on the card 96 that is provided in the package 88. Then registration service would be provided in much the same manner as previously discussed. While in the particular embodiment illustrated in Fig. 8, the registration is accomplished by the customer at a personal computer 30, this can be done alternatively by a retail establishment wherein the card 96 is provided within package 88 with a peel off label 97 such as illustrated in Figs. 9a-9b. In the particular embodiment illustrated, a conventional laser is used to write the registration number 22 on the card 18 through the peel off label 97. The laser will not damage the peel off label 97, but will write on the card 96 as the material of

card 96 absorbs the energy of the laser to form human readable text using a well known technique. Once the peel off label 97 has been removed, for example, by the retailer and/or customer, this information could be entered by the retailer into the system and the card 96 be given or used by the customer for use in identifying 5 the film cartridges 14 that has been entered into the systems. The particular goods and/or services can be entered at the time of registration by the retailer or if desired, on a photoprocessing envelope 70 that is provided with the order at the time of the processing film. Additionally there may be provided on package 88 as shown in Fig. 11a having peel off stickers 87 having the unique ID written in a 10 machine readable form for each film cartridge 14. The back side of the stickers 87 have an adhesive surface for adhering the sticker to the associated film cartridge 14 or photoprocessing envelope 70 used to order processing of the film. Thus, the sticker 87 can be placed on the film cartridge 14 so the photofinisher 68 can automatically read the cartridge ID 17 and determine if it associated with a 15 registered film cartridge 14 and the providing of a particular goods and/or service at the network photoservice provider 34 as previously discussed. Fig.11b illustrates how the film cartridge 14 is mounted to package 88. In particular a pair of tabs 101 which can be easily torn to allow easy removal of film cartridge 14. As can be seen the cartridge ID 17 is placed adjacent the film cartridge 14 20 containing the strip of film 16 having the associated cartridge ID 17.

Upon registration with a network photoservice provider 34, a customer account is established. Once a customer account is, it is possible to order film directly whereby the film or other products can be automatically sent to the customer and automatically registered for a particular goods and/or services 25 selected by the customer. Thus, for example, the customer need not do anything else other than ordering a film cartridge 14. Referring to Fig. 10, there is illustrated a form by which the film cartridge 14 could be ordered over the Internet 36 and wherein the customer would provide an account number associated with that particular customer. As can be seen, the particular film type and quantity 30 desired may be provided. There also could be provided selections for

automatically registering of this film cartridge 14 with the particular goods and/or services as previously discussed.

In the embodiments previously discussed, registration occurs by use of a personal computer 30 or similar type device. However, the present invention is not so limited. For example, registration by a customer may be accomplished by phone. All that need be provided is a phone number which may be provided on the package for goods and/or services whereby the customer can call and register a particular image retaining device 12. Referring to Fig 10, there is illustrated a block diagram of the process by which phone registration may be accomplished. First, the customer at box 110 calls a registration service. The registration service at box 112 would then retrieve the name and address using caller ID as is typically available today on many phone systems. If the caller ID is blocked out, a voice message would be provided to the customer to enter their account number if they have one using the phone touch pad. If the customer does not have registration number, a registration number will be assigned to the customer. Based on the previous registration, or from the caller ID, information will be provided to the customer to confirm that the name and address is correct at step 114. However, if the name and/or address is incorrect in either steps 114 and 115, the registration process will go to a step 116 where the correct information can be entered by the customer. This can be done by an operator or by punching in the appropriate information on the phone touch pad. Once having established the correct name and address at step 118 the customer would enter the cartridge ID 17 or package ID 92 as appropriately, by using the phone touch pad. Once registration by phone is complete, the collected information is transmitted to the network photoservice provider 34 at step 120. At any time during the operation should assistance be required, appropriate instructions will be provided so that the customer can talk to a live individual for assistance.

In the above description the image retaining device 12 is shown as a film cartridge 14, however the image may be provided in a variety of other formats, for example, from a digital camera, computer disc, flash card, and any

other media capable of providing images which are in digital format or can be converted into a digital format.

The network photoservice provider 34 is illustrated as a separate facility, however the present is not so limited. The network photoservice provider 5 may be a part of the photofinisher 68 and/or fulfillment center 86. Likewise the fulfillment center 86 may be part of the photofinisher 68 and/or network photoservice provider 34. It is important only that the functions provided by these providers be maintained.

10 In the detailed description, an ID is provided on the image retaining device or registration card. It is also possible to provide an ID on the image storage device 24, such as a CD. The manufacturer of the CD can register the ID with network photoservice provider 34. In one embodiment, the ID would be provided in the software on the CD that is used for communicating with the network photoservice provider 34. Thus, when the customer goes to the

15 photonetwork service provider, the ID on the CD can be used to automatically register the customer and image retaining devices associated with the CD would also be automatically registered. When a package containing a plurality of image retaining device, such as film cartridges, are sold with a CD 24, the customer need only provide his or her name and address for registration. The customer may of

20 course modify or change and goods and/or services that are to be provided.

It is to be understood that various changes and modifications may be made without departing from the scope of the present invention. The present invention being limited by the following claims.

PARTS LIST

10. retail kit	68. photofinisher
12. image retaining device	70. photoprocessing envelope
14a.-14i film cartridge	73. equipment
16. film	74. scanner
17. film cartridge ID	76. server
18. registration card	77. memory
19. magnetic strip reader	78. printer
22. registration number	80. hard copy prints
23. magnetic strip	82. computer
24. image storage device	86. fulfillment center
26. label	87. peel off stickers
28. network system	88. package
30. computer	89. system
31. display device	90. cartridge registration database
32. Internet service provider	91. system
34. network photoservice provider	92. package ID
35. server	93. system
36. Internet	94. film ID
37. registration screen	95. system
39. confirmation display screen	96. card
40. computer	97. peel off label
44. customer info. data section	98. package registration database
47. verification screen	99. package ID
48. section	101. tabs
49. section	110. box
50. section	112. box
52. section	114. step
54. section	115. step
56. section	120. step
66. retail computer	

WHAT IS CLAIMED IS:

1. A method for organizing a plurality of images obtained from a defined source, comprising the steps of:
 - providing a database for storing digital images;
 - providing at least one image to said database; and
 - automatically providing a product with respect to said at least one image after reaching a predetermined criteria.
2. A method according to claim 1 wherein said predetermined criteria is a predetermined time period.
3. A method according to claim 1 wherein said criteria is a predetermined number of images.
4. A method according to claim 1 wherein said at least one image is obtained from scanning a first roll of photographic film.
5. A method according to claim 1 wherein said defined source is a roll of photographic film, further comprising the step of providing an unique ID with respect to said first roll of photographic film.
6. A method according to claim 5 further comprising the step of registering a customer with respect to said unique ID that can be used in identifying said at least one image.
7. A method according to claim 6 further comprising the step of automatically providing a subsequent roll of photographic film in response to photofinisher receiving said first roll of photographic film for development.

8. A method according to claim 1 further comprising the steps of allowing remote internet access to said at least one image for review by said customer.

9. A method according to claim 9 further comprising the steps of providing computer software to said customer for allowing the customer to modify said at least one image prior to providing said goods or service.

10. A system for organizing a plurality of images obtained from at least one image retaining device each having a unique ID, comprising:

a computer having a database for storing digital images and a management section for managing customer orders and said stored digital images, said management section capable of receiving and storing said unique ID and registering said at least one image retaining device to a customer, said computer associating a particular goods and/or services to images obtained from said at least one image retaining device.

11. A system according to claim 10 wherein said computer forwards said stored digital images of said customer to a fulfillment center for providing of said particular goods and/or services upon reaching of a predetermined criteria.

12. A system according to claim 10 wherein said predetermined criteria comprises receiving images from a predetermined number of said at least one image retaining device.

13. A system according to claim 12 wherein said at least one image retaining device comprises a roll of photographic film.

14. A system according to claim 10 wherein said particular goods and/or service comprises providing a CD containing said images.

15. A system according to claim 10 wherein said particular goods and/or service comprises providing at least one album page containing said images.

16. A system according to claim 15 wherein said at least one album page includes a plurality of images on both sides of said album page.

17. A method for organizing images obtained from a plurality of discrete image retaining devices, comprising the steps of:

providing a plurality of discrete image retaining devices, each having a unique ID;

obtaining the ID from each of said image retaining devices;

providing a first group of said image retaining devices;

forwarding the ID for each of said image retaining devices in said group to database of a network photoservice provider for storage.

18. A method according to claim 17 further comprising the steps of:

registering said plurality of image retaining devices to a customer at said network photoservice provider;

establishing a communication link between said customer and said database; and

said customer entering the ID of one of said image retaining devices such that so that all of said image retaining devices are registered to said customer.

19. A method according to claim 18 further comprises the steps of;

providing at least one image obtained from at least one of said image retaining devices to said network photoservice provider; and
forwarding said at least one image to a fulfillment provider for fulfilling an associated customer order.

20. A system for organizing images obtained from a group of a plurality of discrete image retaining devices, each image retaining device having a unique ID, comprising:

a computer having database for storing digital images and a management section for managing customer orders and said stored digital images, said management section capable of receiving and storing said unique ID of said group of said plurality of image retaining devices and registering said group to a customer, said computer associating a particular goods and/or services to images obtained from said group of plurality of image retaining devices.

21. A system according to claim 20 wherein said group of said plurality of image retaining devices are provided in a single package.

22. A system according to claim 20 further comprising a scanner for obtaining said unique ID of said group of said plurality of image retaining devices.

23. A system according to claim 21 wherein a scanner obtains said unique ID from said plurality of image retaining devices when said image retaining devices are in said single package.

24. A system according to claim 20 wherein said goods and/or services are provided upon reaching a predetermined criteria.

25. A system according to claim 24 wherein said predetermined criteria comprises receiving images from a predetermined number of said at least one image retaining device.

26. A system according to claim 20 wherein said at least one image retaining device comprises a roll of photographic film.

27. A system according to claim 20 wherein said particular goods and/or service comprises providing a CD containing said images.

28. A system according to claim 20 wherein said particular goods and/or service comprises providing at least one album page containing said images.

29. A system according to claim 28 wherein said at least one album page includes a plurality of images on both sides of said album page.

30. A system according to claim 20 wherein said computer allows said customer to partition said group to at least two sub-groups and associating one or more goods and/or services to each sub-group.

31. A system according to claim 20 wherein registration of said customer results in an account automatically being set up on behalf of said customer.

32. A system according to claim 31 wherein said customer can allow another third party access to said account for sharing and/or exchanging of images.

33. A system according to claim 32 wherein said third party may order additional goods and/or services.

34. A method for organizing a plurality of images obtained from an image source, comprising the steps of:

providing a database for storing of digital images;

providing a plurality of discrete image retaining devices in a package, each image retaining device having a unique ID;

forwarding said unique ID of said plurality of image retaining devices to a database at a network photoservice provider for storage;

allowing access to said database to a customer so as to allow registration of said plurality of image retaining devices to said customer.

35. A method according to claim 34 wherein registration of one of said retaining devices automatically registers the remaining image retaining devices in said package.

36. A method according to claim 34 further comprising the steps of:

partitioning said plurality of image retaining devices into at least two sub-groups, each sub-group having associated therewith a particular goods or service to be provided with respect to images obtained by said image retaining devices in said sub-group.

37. A method according to claim 34 wherein at least one goods and/or service is associated with said customer to be provided upon reaching a predetermined criteria.

38. A method according to claim 37 wherein said predetermined criteria comprises a predetermined time period.

39. A method according to claim 37 wherein said predetermined criteria is a predetermined number of images obtained from said image retaining devices.

40. A method according to claim 39 wherein image retaining device comprises a roll of photographic film.

41. A method according to claim 40 further comprising the step of automatically providing a subsequent roll of photographic film in response to photofinisher receiving said first roll of photographic film for development.

42. A method according to claim 34 further comprising the steps of allowing remote internet access to for allowing review of images obtained form said image retaining devices.

43. A method according to claim 42 further comprising the steps of providing computer software to said customer for allowing the customer to modify said at least one image prior to providing said goods or service.

44. A method for organizing images obtained from a plurality of discrete image retaining devices, each image retaining device have an unique ID, comprising the steps of:

obtaining the ID of a plurality of said image retaining devices and forwarding said ID to a database at network photoservice provider;

accessing said database by a customer and registering at least one of said image retaining devices to said customer, and

said customer associating the providing of a goods or service to images obtained from said at least one image retaining device.

45. A method according to claim 44 wherein said goods or service is automatically provided upon reaching a predetermined criteria.

46. A method according to claim 45 wherein said predetermined criteria comprises a predetermined time period.

47. A method according to claim 45 wherein said predetermined criteria comprises a predetermined number of images.

48. A method according to claim 44 wherein said at least one image is obtained from scanning a first roll of photographic film.

49. A method according to claim 44 wherein said image retaining device comprises a roll of photographic film, further comprising the step of providing an unique ID with respect to said first roll of photographic film.

50. A method according to claim 48 further comprising the step of automatically providing a subsequent roll of photographic film in response to a photofinisher receiving said first roll of photographic film for development.

51. A method according to claim 44 further comprising the steps of allowing remote internet access to said at least one image obtained from said image retaining devices for review by said customer.

52. A method according to claim 51 further comprising the steps of providing computer software to said customer for allowing the customer to modify said at least one image prior to providing said goods or service.

53. A method for organizing a plurality of images obtained from an image source, comprising the steps of:

providing a database for storing of digital images;
providing a plurality of discrete image retaining devices in a package, each image retaining device having an unique ID, said package having a unique package ID;

forwarding said unique ID of said plurality of image retaining devices and said package ID to a database at a network photoservice provider for storage;

allowing access to said database to a customer so as to allow registration of said package ID so that said plurality of image retaining devices are automatically registered to said customer.

54. A method according to claim 53 wherein at least one particular goods and/or services is associated with images obtained said plurality of image retaining devices provided in said package, further comprising the step of:

automatically providing said goods and/or services upon reaching a predetermined criteria.

55. A method according to claim 54 further comprising the step of;

allowing the customer to select and/or modify said at least one goods and/or services to be provided.

56. A method according to claim 54 wherein said predetermined criteria is a predetermined time period.

57. A method according to claim 54 wherein said predetermined criteria is a predetermined number of images.

58. A method according to claim 54 wherein said at least one image is obtained from scanning a first roll of photographic film.

59. A method for organizing a plurality of images obtained from a plurality strips of photographic film, each of said plurality of strips of film being provided in a discrete film cartridge, each of said plurality of strips photographic film having an unique ID recorded thereon, comprising the steps of:

providing a plurality of said film cartridges in a single package, said package having an unique package ID;

forwarding said unique ID for said plurality of strips of photographic film and package ID to a database at network photoservice provider for storage; and

allowing access to said database to a customer so as to allow registration of said package ID so that said plurality of strips of photographic film are automatically registered to said customer.

60. A method according to claim 59 wherein said package includes label that can be placed on said cartridge that can be used to identify said unique ID of said strip of film contained in said film cartridge.

61. A method according to claim 59 wherein said label includes a peelable security cover strip that once removed will reveal said unique ID.

62. A system for organizing a plurality of images obtained from a plurality strips of photographic film, each of said plurality of strips of film being provided in a discrete film cartridge, each of said plurality of strips photographic film having an unique ID recorded thereon, comprising:

a computer having database for storing digital images and a management section for managing customer orders and said stored digital images, said management section capable of receiving and storing said unique ID of said

group of said plurality strips of photographic film and registering said plurality strips of photographic film to a customer using said unique ID.

63. A system according to claim 62 wherein said computer associating a particular goods and/or services to images obtained from said group of plurality strips of photographic film.

64. A system according to claim 62 further comprising a film scanner for obtaining said unique ID.

65. A system according to claim 64 further comprising a communication device for forwarding said unique ID to said computer.

66. A system according to claim 62 wherein said computer forwards said stored digital images of said customer to a fulfillment center for providing of said particular goods and/or services upon reaching of a predetermined criteria.

67. A system according to claim 66 wherein said predetermined criteria comprises receiving images from a predetermined number of said at least one image retaining device.

68. A system according to claim 63 wherein said particular goods and/or service comprises providing a CD containing said images.

69. A system according to claim 63 wherein said particular goods and/or service comprises providing at least one album page containing said images.

70. A system according to claim 69 wherein said at least one album page includes a plurality of images on both sides of said album page.

71. A method for organizing images obtained from at least one image retaining devices, comprising the steps of:

providing at least one image retaining devices having a unique ID;
obtaining the ID from each of said at least one image retaining device; and

forwarding the ID for said at least one image retaining device to a network photoservice provider for storage.

72. A method according to claim 71 wherein a manufacturer of said at least one image retaining device forwards said ID to said network photoservice provider.

73. A method according to claim 71 wherein a retailer of said at least one image retaining device forwards said ID to said network photoservice provider.

74. A method according to claim 71 wherein a customer is registered with respect to said at least one image retaining device.

75. A method according to claim 74 wherein said at least one image retaining device is automatically registered at a retail establishment.

76. A method according to claim 75 wherein said registration is accomplished by scanning a registration card associated with said customer.

ABSTRACT OF THE DISCLOSURE

A system for organizing images obtained from at least one image retaining device having a unique ID. The system includes a computer having database for storing digital images and a management section for managing customer orders and said stored digital images. The management section is capable of receiving and storing said unique ID of the at least one image retaining devices and registering the image retaining device to a customer. The computer automatically associating a particular goods and/or services to images obtained from the at least one image retaining device.

Fig. 1

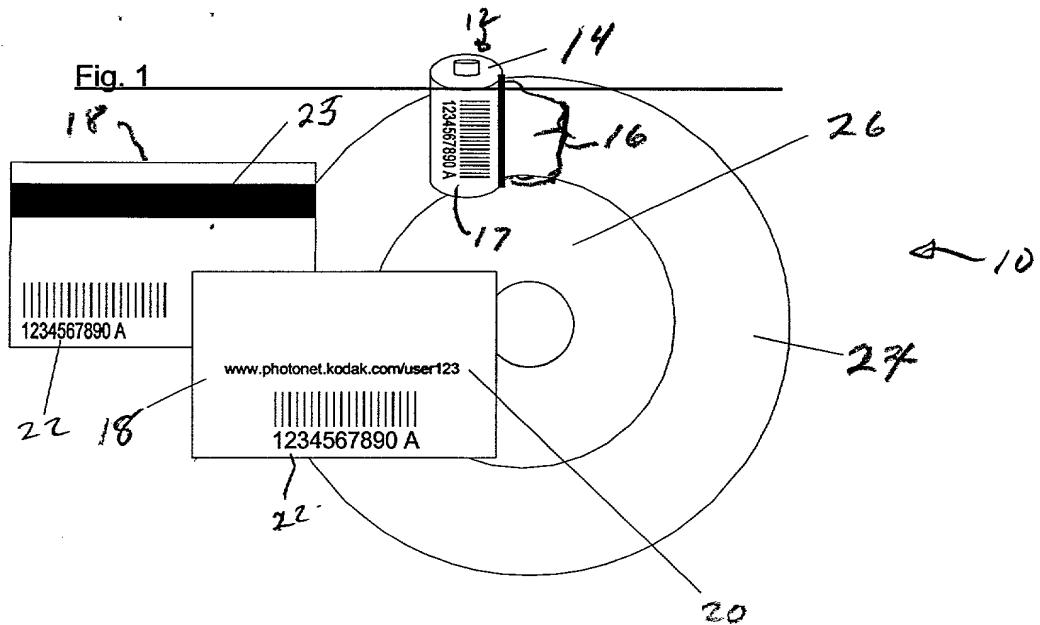


Fig. 2

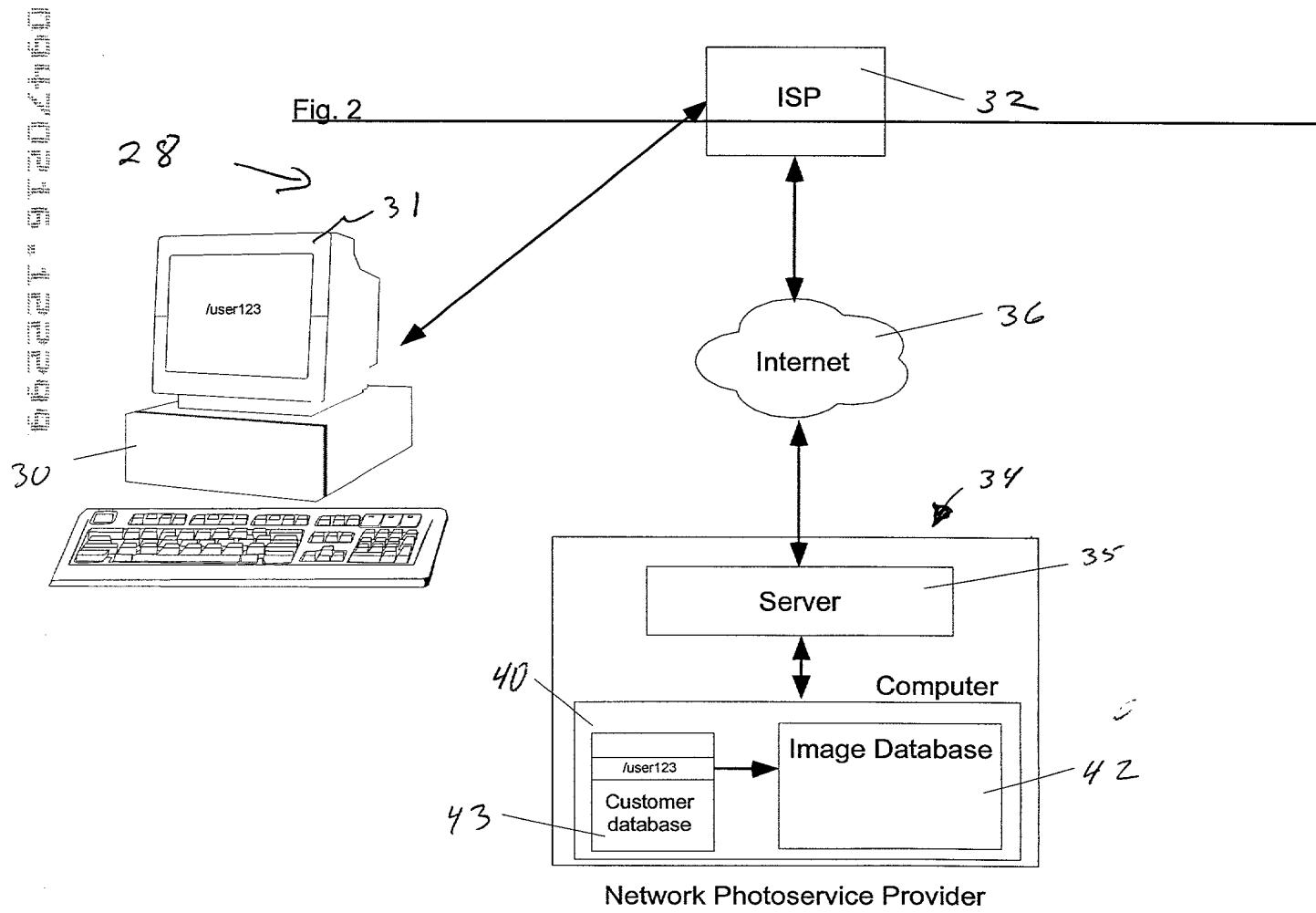


Fig. 3a

37

Register here...

last name first name 48

address1 49 } phone number 50

address2 49 } email address 52

city state zip code

Film Cartridge ID - 56

Registration Number Credit Card No. 54

www.kodak.com/reg.html

Click here to register more film

Fig. 36

46

Please verify that your information is correct

Doe, Jane
123 Suburban Lane
Anytown, NY 12345

(111) 222-3333
jdoe@anyisp.com

-
 -

[Continue](#) [Go Back](#)

www.kodak.com/reg/addverify.html

Fig. 3d

39

Please pre-select finishing services for your film # 000001234567

Prints by mail Double
 Prints at retail Double
 Album pages
 PictureCD™
 Kodak PhotoNet™
 Create event site
 Create my year in pictures
 CD fulfillment
 Album page fulfillment
 I'll decide later...

Next Roll or **Enter Film ID** **Go to Roll**

www.kodak.com/reg/services.html

Fig. 3c

47

Please verify the following cartridge numbers are in your package

000001234567
000002345678
000003456789
000004567890

Continue

Go Back

* You may want to print this screen for your records.

www.kodak.com/reg/cart#.html

Fig. 4

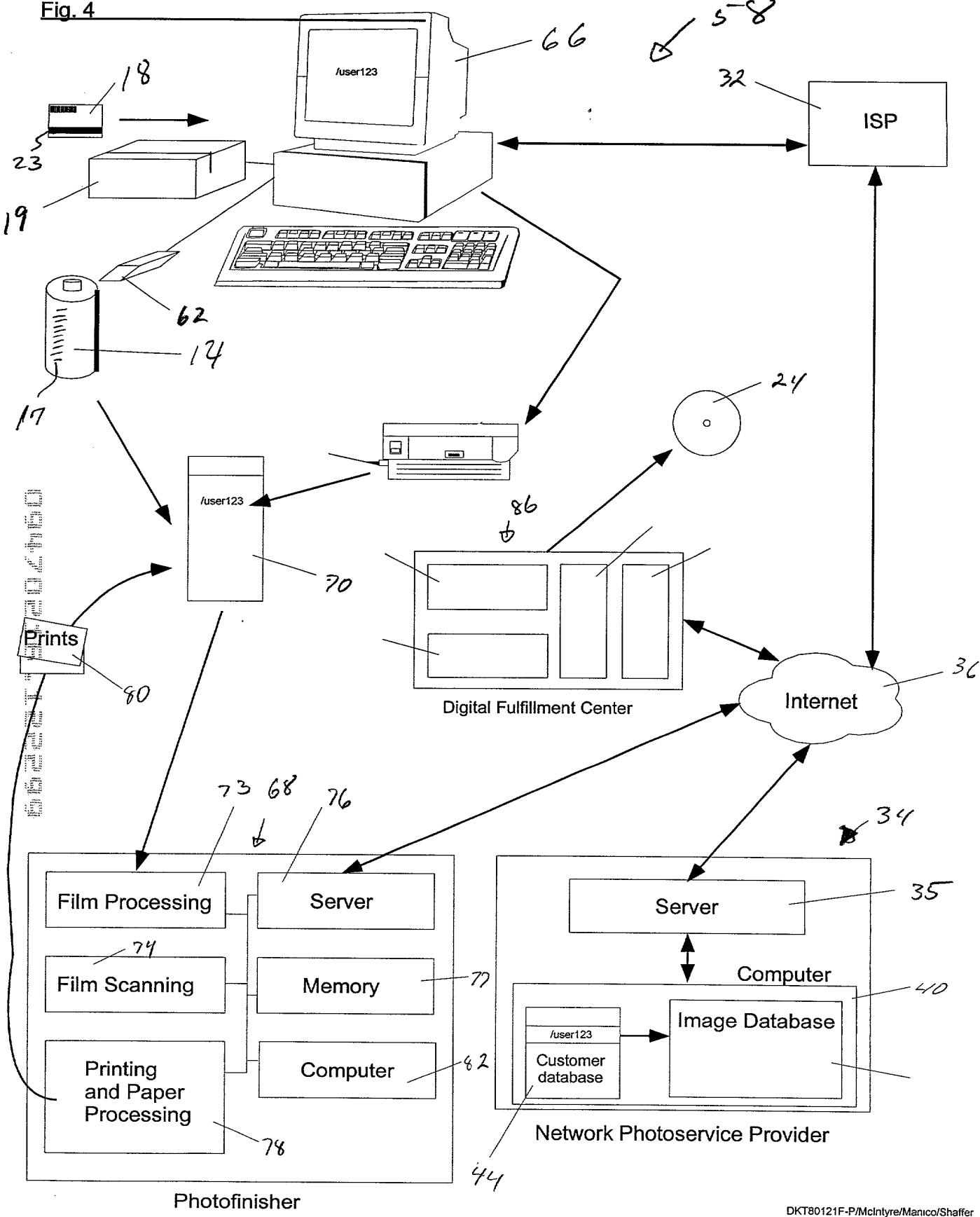


Fig. 5

Film Packaging Operation

89

90

Computer

Film Multi-Pack

88

14a

14b

14c

14d

14e

14f

14g

14h

14i

Network Photoservice Provider

Internet

36

Customer Database
Image Database

Computer

34

Internet Service Provider

32

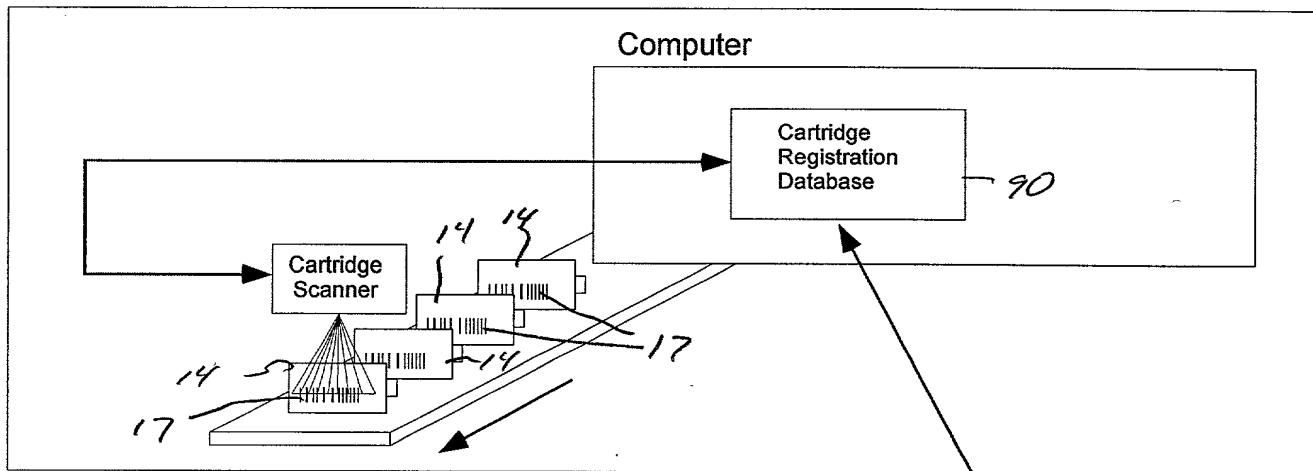
Personal Computer

30

14j

Fig. 6

Film Packaging



Network Photoservice Provider

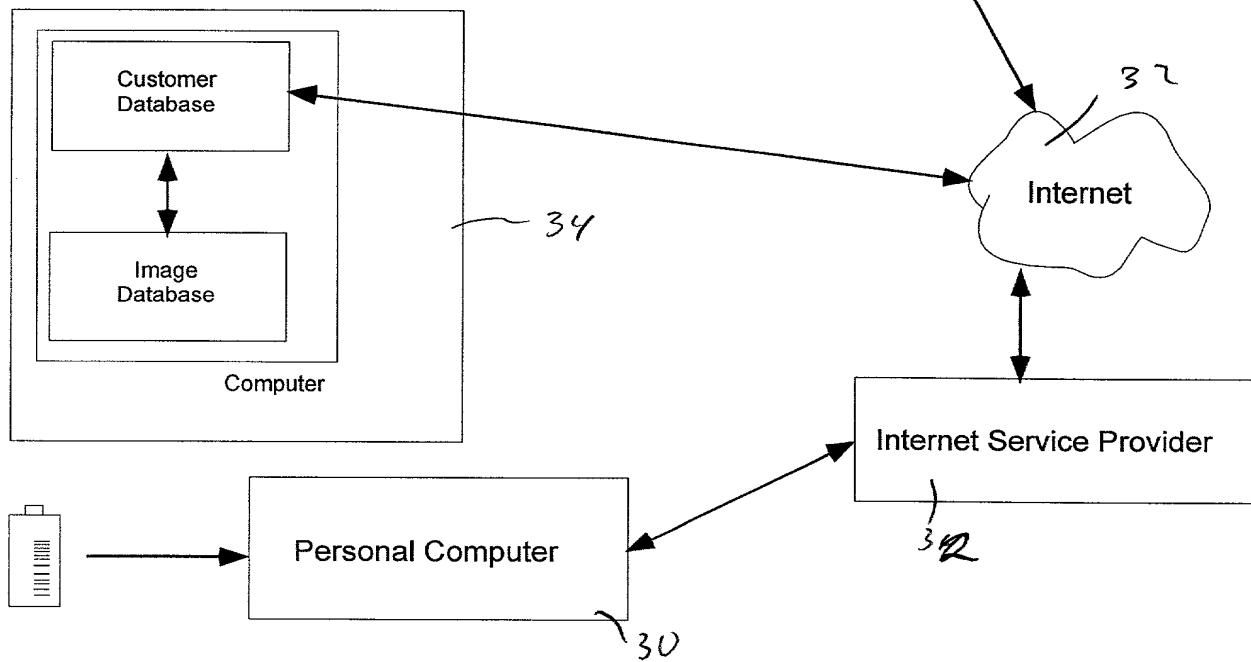


Fig. 7

6,626,200 2003-07-16 0

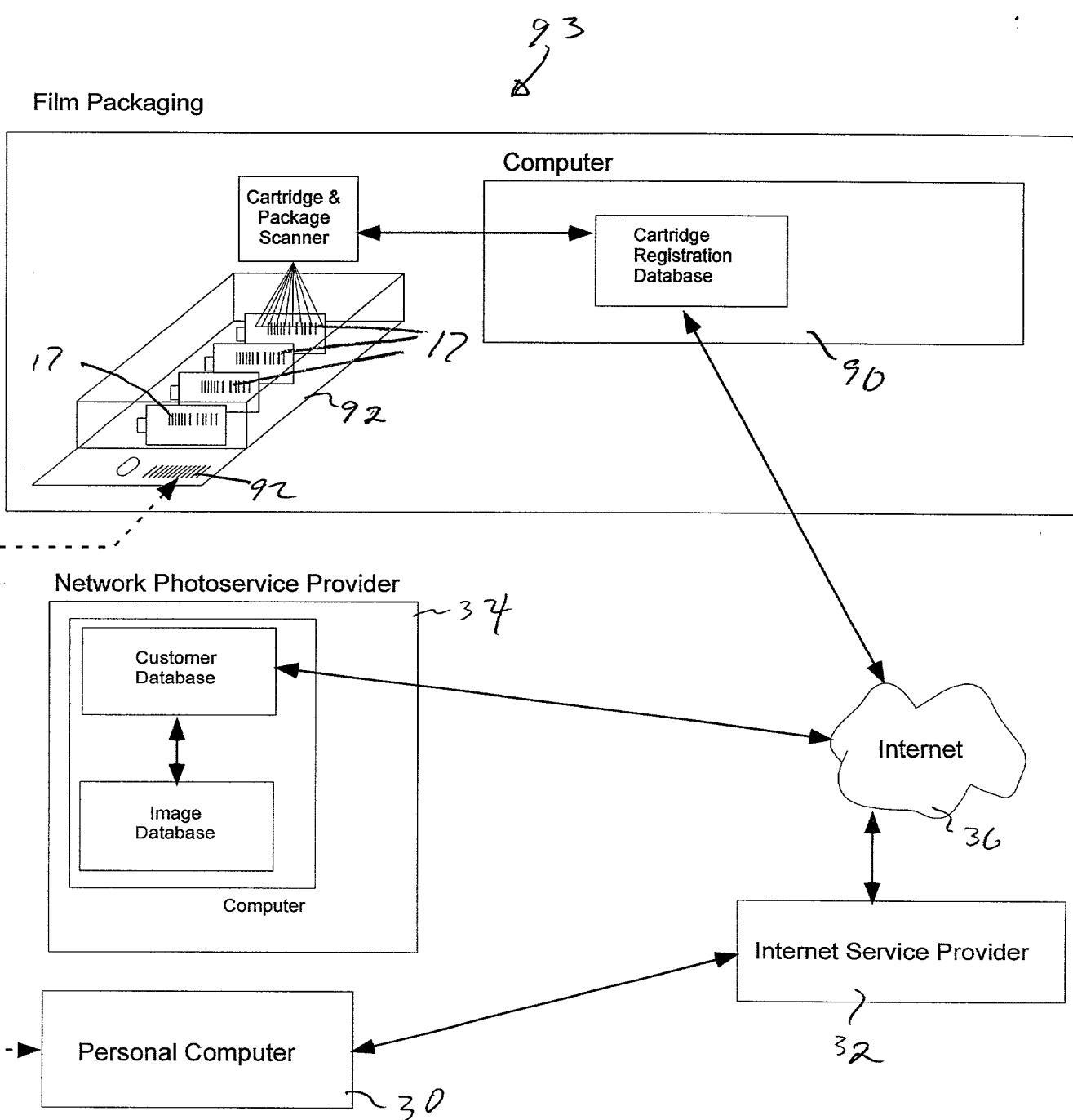
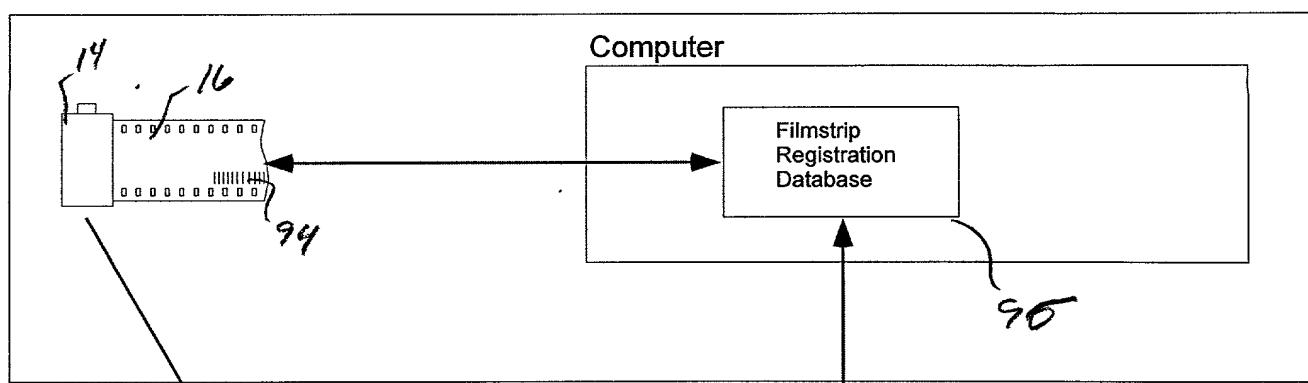


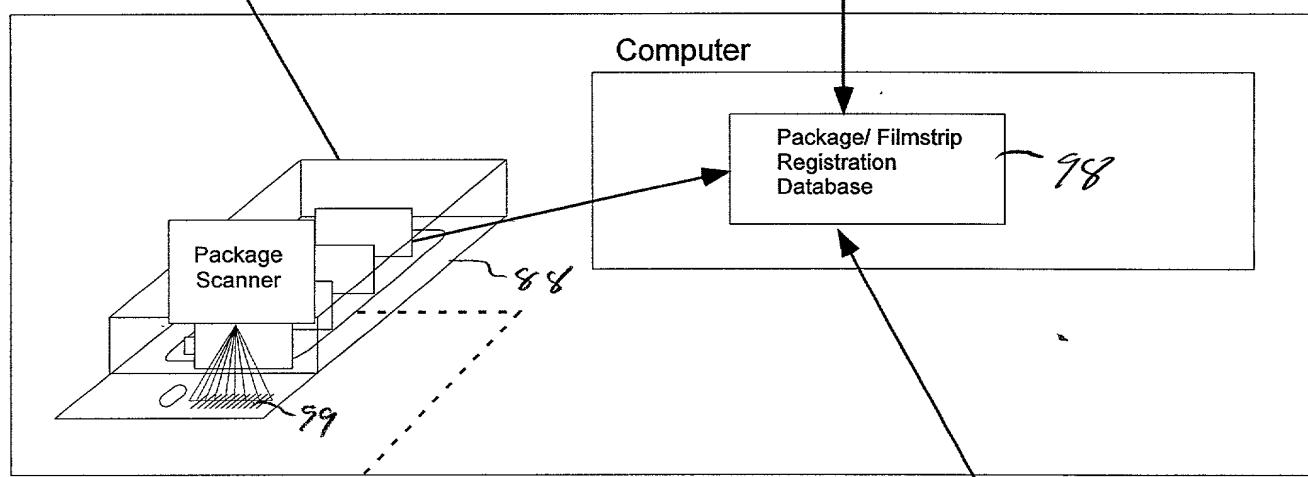
Fig. 8

95

Film Manufacturing



Film Packaging



Network Photoservice Provider

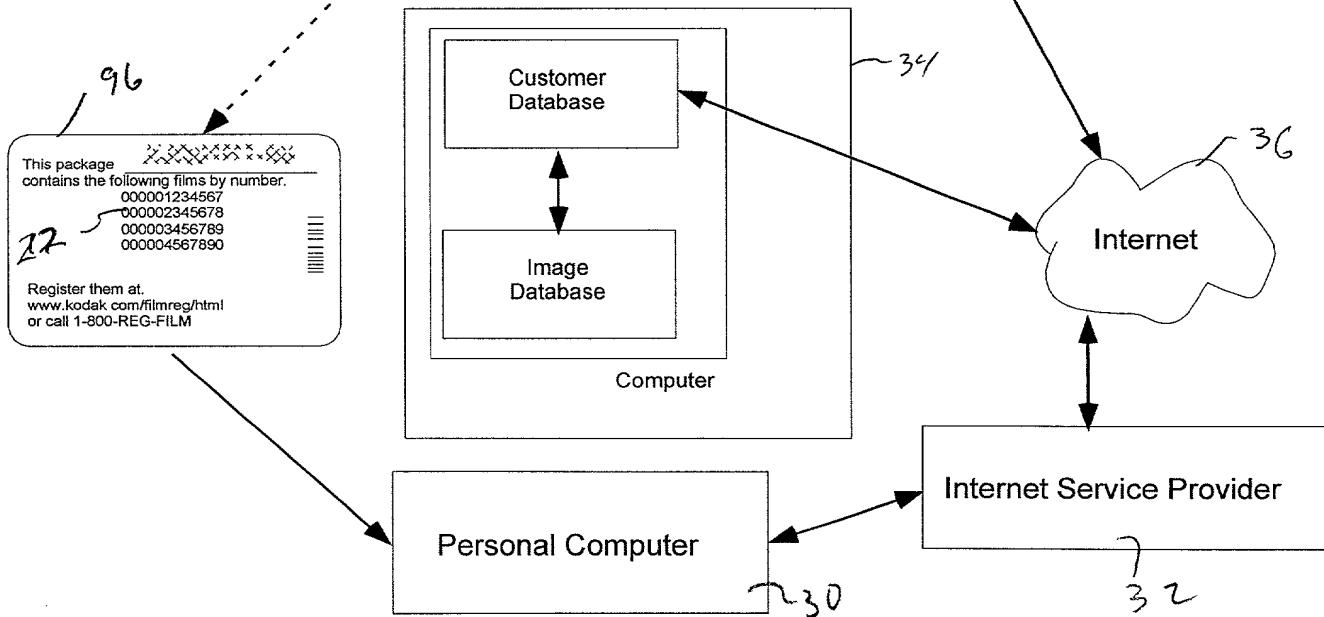


Fig. 94

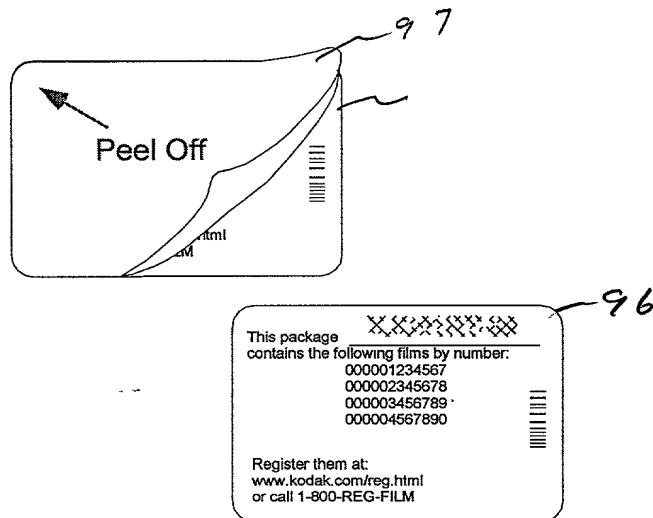


Fig. 95

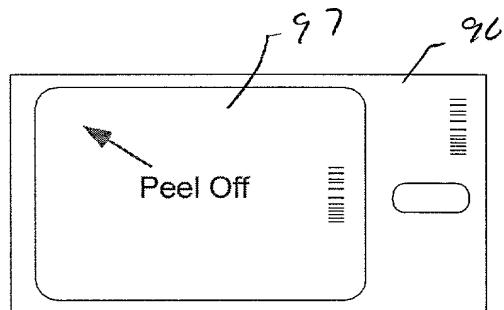


Fig. 10

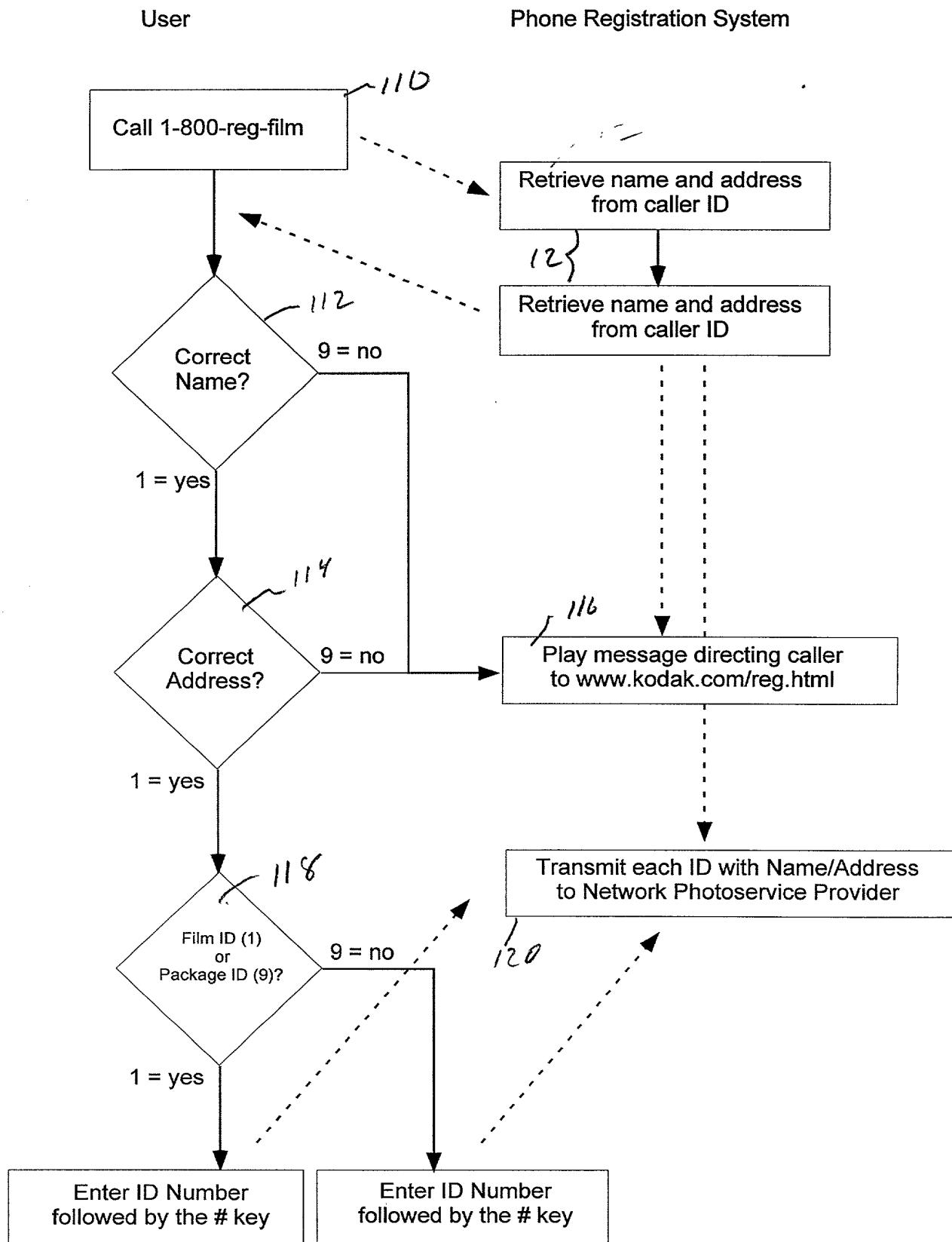
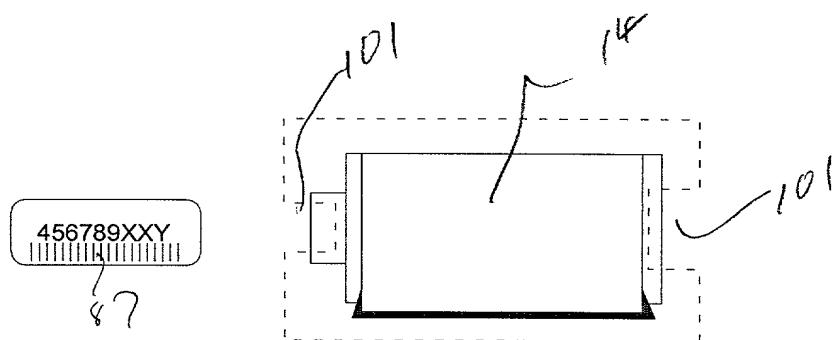
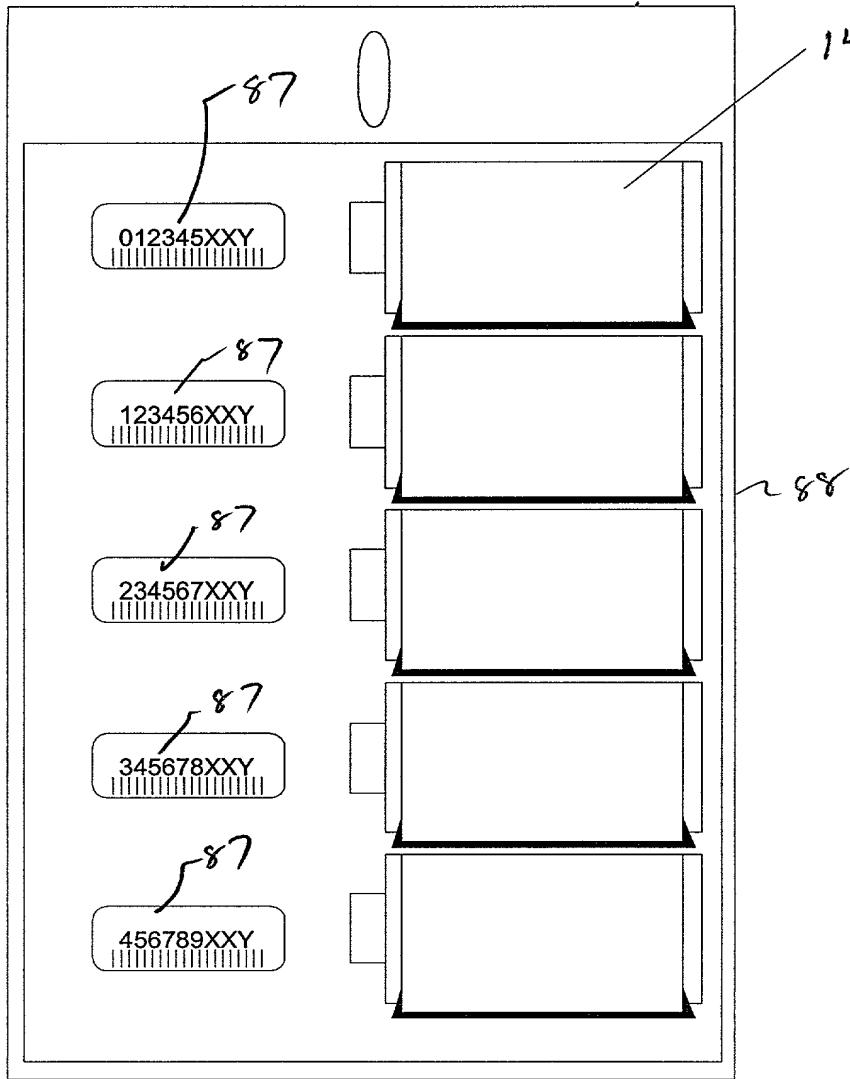


Fig. 11



Combined Declaration For Patent Application and Power of Attorney

ATTORNEY DOCKET
80121F-P

As below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND SYSTEM FOR ORGANIZING IMAGES

The specification of which (check only one item below):

is attached hereto.

was filed as United States Application Serial No. on and
was amended on (if applicable).

was filed as PCT international application Number on and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent & Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating a least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day month year)	PRIORITY CLAIMED UNDER 35 USC §119		
			YES		NO
			YES		NO
			YES		NO

I hereby claim the benefit under Title 35, United States Code, 119 §(e) of any United States provisional application(s) listed below:

PRIOR PROVISIONAL APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §119 (e):

PROVISIONAL APPLICATION NUMBER	FILING DATE

I hereby claim the benefit under Title 35, United States Code, §120 of any prior United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, §112, I acknowledge the duty to disclose to the U.S. Patent & Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations §1.56, which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR US APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35USC§120:

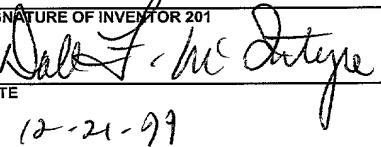
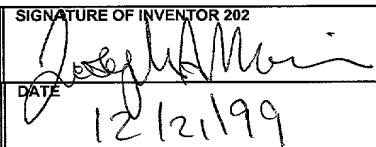
U.S. APPLICATIONS		STATUS (Check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (List name and registration number)

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	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
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2 0 5	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)
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	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	BUSINESS ADDRESS	BUSINESS ADDRESS	CITY	STATE & ZIP CODE (COUNTRY)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 	SIGNATURE OF INVENTOR 202 	SIGNATURE OF INVENTOR 203
DATE 12-21-99	DATE 12/21/99	DATE
SIGNATURE OF INVENTOR 204	SIGNATURE OF INVENTOR 205	SIGNATURE OF INVENTOR 206
DATE	DATE	DATE